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Derwent Title: **Fail-safe circuit for gas valve, especially piezo-driven gas valve, uses fail-safe circuit for providing output voltage to open gas valve**

Original Title: ☑ DE102004016764B3: Fail-Safe-Schaltung für Gasventile

Assignee: **HONEYWELL BV** Standard company
Other publications from HONEYWELL BV (HONE)...

Inventor: **VEGTER D;**

Accession/ Update: **2005-607225 / 200660**

IPC Code: **F16K 31/00 ; G05D 16/20 ; H02N 2/04 ;**
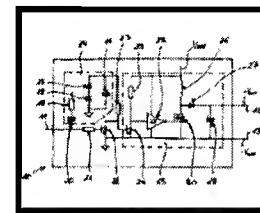
Derwent Classes: **Q66; T06; V06;**

Manual Codes: **T06-B11**(Fluid pressure) , **V06-N07**(Piezoelectric or electrostrictive motors, actuators) , **V06-U15**(Industrial machines/components)

Derwent Abstract: (DE102004016764B) **Novelty -** A fail-safe circuit for gas valve, has at least one input (11) connected to a control device and at least one output (12,13) connected to a gas valve, in which the fail-safe circuit (10) prepares an output voltage at those outputs for opening a gas valve, when at the output (11) of the fail-safe circuit (10) an input is provided from the control device and has at least two different time-sequential frequency signals.
Use - For microprocessor controlled gas valve, especially for piezo-driven gas valve.

Advantage - Provides a new type of fail-safe circuit for gas valves.

Images:
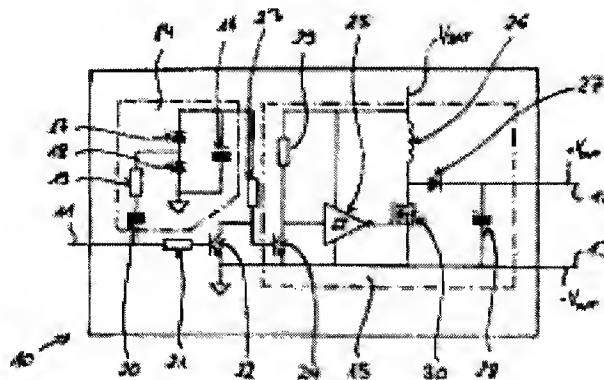
Description of Drawing(s) - A circuit diagram of the fail safe circuit for gas valves is given.
Circuit 10, Input 11, Outputs 12,13, Charge circuit 14, Voltage conversion circuit 15, Bipolar transistor (NPN transistor) 22, Transistor 24, Comparator 25, Coil 26, MOSFET 30 Dwg.1/1

Family:

PDF	Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code

☑ **DE102004016764B3** * 2005-09-08   200563   6   German   G05D 16/20

Local appls.: DE200400A016764 Filed:2004-04-01 (2004DE-A016764)

☑ WO05098292A1 =   2005-10-20   200569   18   German   F16K 31/00

Des. States:
(N) AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(R) AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW

Local appls.: WO2005EP0002855 Filed:2005-03-17 (2005WO-EP02855)

First Claim:
Show all 10 claims

1. Fail-Safe-Schaltung für Gasventile, insbesondere für piezobetriebene Gasventile, mit mindestens einem an eine Regeleinrichtung anschließbaren Eingang (**11**) und mindestens einem an ein Gasventil anschließbaren Ausgang (**12, 13**), wobei die Fail-Safe-Schaltung (**10**) nur dann an dem oder jedem Ausgang (**12, 13**) eine zum Öffnen eines Gasventils erforderliche Ausgangsspannung bereitstellt, wenn an einem Eingang (**11**) der Fail-Safe-Schaltung (**10**) von der Regeleinrichtung ein mindestens zwei unterschiedliche, zeitlich aufeinanderfolgende Frequenzsignale aufweisendes Eingangssignal bereitgestellt wird.

Priority Number:

Application Number	Filed	Original Title
DE200400A016764	2004-04-01	

Related Accessions:

Accession Number	Type	Derwent Update	Derwent Title
2005-758456	R	200577	Control circuit for relay-operated gas valve, has fail-safe circuit providing relay with required voltage to open gas valve when input of fail-safe circuit, connected with regulating device, receives input signal from device
1 item found			

Title Terms: FAIL SAFE CIRCUIT GAS VALVE PIEZO DRIVE GAS VALVE FAIL SAFE CIRCUIT OUTPUT VOLTAGE OPEN GAS VALVE

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